

Claims

1. A surface acoustic wave sensor (1) comprising an antenna (3), a transducer (4) and reflectors (5a and 5b), **characterized in that** additional reflectors (6a, 6b) are arranged in a smoothed edge zone (8) on this surface acoustic wave sensor (1) in order to reflect signals which are used for evaluation of the current temperature.

2. The surface acoustic wave sensor as claimed in claim 1, **characterized in that** the smoothed edge zone (8) corresponds to approximately three times the thickness of the substrate material (9).

3. The surface acoustic wave sensor as claimed in claim 1, **characterized in that** this sensor is mounted by means of an adhesive (2) on the substrate material to be measured.

4. The surface acoustic wave sensor as claimed in claim 1, **characterized in that** the smoothed edge zone (8) is enlarged by means of the bonding surface (2) and areas without adhesive (10).